56|F

VOLUME LV 1971-1972

THE PHILIPPINE AGRICULTURIST

UNIVERSITY OF THE PHILIPPINES, PUBLICATION
SERIES A

JUNE, 1971 TO MARCH, 1972

(Complete in ten numbers)

PUBLISHED BY
THE COLLEGE OF AGRICULTURE AND
CENTRAL EXPERIMENT STATION
UNIVERSITY OF THE PHILIPPINES

TABLE OF CONTENTS, VOLUME LV 1971-1972

Numbers 1 & 2, June-July 1971

Purification of Local Agar (Gulaman) for Microbiological Use — R. Maranan, A. Karganilla and R. Alicbusan 1

Chilling Response of Germinating Cotton Seeds With Emphasis on Proteins and Isoenzymes — T. H. Quimio, and G. R. Noggle 11

The Association of Plant Parasitic Nematodes with the Citrus Decline in the Philippines — R. G. Davide and A. G. de la Rosa 26

A Survey of the Aroma Composition of the Philippine Fruits — A. B. Aspiras and E. M. Tocino 67

The Effects of Nutrient Deficiencies of Nitrogen, Potassium and Manganese on the Critical Phosphorus Concentration in the Rice Plant *(Oryza Sativa* L.) R. E. Coronel and F. F. Wallihan 83

The International Demand for Philippine Corn Products: A Regional Analysis — A. R. Librero 97

The Influence of Sequence of Birth and Birth Weight on Pig Performance — V. G. Argañosa and F. F. Peñalba 119

Numbers 3 & 4, August-September 1971

Curriculum Vitae of Dr. Valente E. Villegas 126

The Efficiency of Neomycin, Chloramphenicol and Dihydrostreptomycin on Baby Pig Scours — E. Punzalan and J. A. Eusebio 145

Meat Animal and Carcass Evaluation: III. Intercorrelations of Weights of Wholesale Cuts of Pork and Selected Carcass Measurements — V. G. Argañosa, M. B. de Ramos and P. F. Alcantara 170

The Feeding Value of Napier Grass *(Pennisetum Purpureum* Schumach) for Cattle and Carabaos. I. Yield and Chemical Composition — A. Y. Robles and A. L. Ordoveza 178

The Feeding Value of Napier Grass *(Pennisetum Purpureum* Schumach) for Cattle and Carabaos. II. Digestibility As Affected By Stage of Regrowth, Form of Feeding and Animal Species — A. Y. Robles and A. L. Ordoveza 183

The Effects of Feeding High Levels of Ipil-Ipil (*Leucaena Leucocephala* Lam de Wit) Leaf Meal and PMS Administration on Comb and Ovary of Ready-to-Lay Pullets — J. P. Mateo and M. H. Labadan 190

Numbers 5 & 6, October-November 1971

Curriculum Vitae of Dr. Jose R. Velasco 197

The Effect of Continuous Herbicide Treatments on Weed Population and Yield of Lowland Rice — M. R. Vega, E. C. Paller, Jr. and R. T. Lubigan 204

The Effect on Yield on the Competition of Rice With *Echinochloa Crusgalli* (L) Beauv. and *Monochoria Vaginalis* (Burm. F.) Presl. — R. T. Lubigan and M. R. Vega 210

Duration of Weed Control and Weed Competition and the effect on yield. I. Mungo Bean *(Phaseolus Aureus* L.) M. T. Madrid, Jr. and M. R. Vega 216

Duration of Weed Competition and Weed Control and Yield. II. Transplanted Onions — E. C. Paller, Jr., M. M. Guantes, J. M. Soriano and M. R. Vega 221

Evaluation of Phenoxy — Propanil Treatments for the Control of *Scirpus Maritimus* L. in Lowland Rice — E. C. Paller, Jr., R. T. Lubigan and M. R. Vega 225

Morphological and Physiological Response of Crops and Weeds to Trifluralin, V. Amylose Activity in Rice Seedlings — R. P. Robles and B. L. Mercado 232

Morphological and Physiological Responses of Crops and Weeds to Trifluralin. VI. Free Amino Acid Content of the Rice Seedling — B. E. Lapade and B. L. Mercado 239

Morphological and Physiological Responses of Crops and Weeds to Trifluralin. VII. Free Amino Acid Content of the Rice Seedling — G. B. Begonia, B. L. Mercado and R. P. Robles 247

Responses of Some Lowland Weed Species to Salinity. I. *Scirpus Maritimus* L. to Sodium Chloride — B. T. Mercado, C. Malabayabas and S. Gumasing 253

Numbers 7 & 8, December 1971 — January 1972

Meloidogyne Incognita: Its Effects on Tomato Yield and Some Methods of Control — A. R. Ducusin and R. G. Davide 261

Chemical Control of Nematodes on Cabbage in Atok, Benguet — R. G. Davide and A. Comedis 282

Pre-Harvest Factors Affecting Tomato Fruit Quality. I. Mineral Nutrition — G. A. Santos, Er. B. Pantastico and L. V. Uri 289

Post-Harvest Ripening and Degreening of Banana and Citrus Fruits with 2-Chloroethylphosphoric Acid (Ethel) — N. D. Bondad 310

Storage and Handling of Rambutan *(Nephelium Lappaceum* L.) — D. B. Mendoza, Jr., Er. B. Pantastico and F. B. Javier 322

Note: Response of Tomato Fruits to Acetylene and Calcium Carbide Treatments — N. D. Bondad and Er. B. Pantastico 333

Numbers 9 & 10, February-March 1972

SPECIAL ISSUE

Agricultural Land Reform in the Philippines: Economic Aspects — P. R. Sandoval and B. V. Gaon 341-443

INDEX TO VOLUME LV 1970-1971

Agar, purification for microbiological use, 1-10
Alcantara, P. F., 170-177
Alicbusan, R., 1-10
Argañosa, V. G., 119-125; 170-177
Aspiras, A. B., 67-82

Begonia, G. B., 247-252
Bondad, N. D., 310-321; 333-340

Chloramphenicol, efficiency of, on baby pig scours, 145-169
Comedis, A., 282-288
Corn products, Philippine, a regional analysis of international demand for, 97-118
Coronel, R. E., 83-96
Cotton, seeds, germinating, chilling response to proteins and isoenzymes, 11-25

Davide, R. G., 26-66; 261-281; 282-288
De la Rosa, A. G., 26-66
De Ramos, 170-177
Dihydrostreptomycin, efficiency of, on baby pig scours, 145-169
Ducusin, A. R., 261-281

Eusebio, J. A., 145-169

Fruits, Philippine, survey of aroma composition, 67-82

Gaon, B. V., 341-443
Guantes, M. M., 221-224
Gumasing, S., 253-260

Javier, F. B., 322-332

Karganilla, A., 1-10

Labadan, M. H., 190-196
Land reform, Philippine, agricultural, program, 344-355; economic analysis, effects, 356-424; outlook, 425-429
Lapade, B. E., 239-246
Librero, A. R., 91-118
Lubigan, R. T., 204-209; 210-215; 225-231

Madrid, Jr., M. T., 216-220
Malabayabas, C., 253-260
Maranan, R., 1-10
Mateo, J. P., 190-196
Meloidogyne incognita, effects on tomato yield and methods of control, 261-281
Mendoza, Jr. D. B., 322-332
Mercado, B. L. 232-238; 239-246; 247-252

Mercado, B. T., 253-262
Mung bean, weed control and weed competition, duration and effect on yield, 216-220

Napier grass (*Pennisetum purpureum* Schumach), digestibility as affected by stage of regrowth, form of feeding and animal species, 183-189; feeding value for cattle and carabaos, yield and chemical composition, 178-182
Nematode, association with citrus decline in the Philippines, 26-66; on cabbage, chemical control of, 261-281
Neomycin, efficiency of, on baby pig scours, 145-169
Noggle, G. R., 11-25

Onions, transplanted weed competition and weed control, duration and yield, 221-224
Ordoveza, A. L., 178-182; 183-189

Paller, Jr. E. C., 204-209; 221-224; 225-231
Pantastico, Er. B., 289-309; 322-332; 333-340
Peñalba, F. F., 119-125
Pig, performance, influence of sequence of birth and weight, 119-125
Punzalan, E., 145-169

Quimio, T. H., 11-25

Rambutan (*Nephelium lappaceum* L.) storage and handling of, 322-332
Rice, effect on yield of competition with *Echinochloa crusgalli* (L.) Beuv. and *Monochoria vaginalis* (Burm. F) Presl, 210-215; lowland, effect of continuous herbicide treatments on weed population and yield, 204-209; plant, phosphorus concentrations, effects of nutrient deficiencies of nitrogen, potassium, manganese, 67-82; seedling, free amino acid content, 239-246; amylose activity in, 232-238
Robles, A. Y., 178-182; 183-189
Robles, R. P., 232-238; 247-252

Sandoval, P. R., 341-443
Santos, G. A., 289-309
Scirpus maritimus L. control in lowland rice, evaluation of phenoxy-propanil treatments for, 225-231
Soriano, J. M., 221-224

Tocino, E. M., 67-82
Tomato fruits, response to acetylene and calcium carbide treatments, 333-340; pre-harvest factors affecting fruit quality, 289-309
Trifluralin, influence on peroxidase activity, 247-252; morphological and physiological responses of crops and weeds to, 232-238; 239-246

Uri, L. V., 289-309

Vega, M. R., 204-209; 210-215; 216-220; 221-224; 225-231
Velasco, J. R., curriculum vitae, 197-203
Villegas, V. E., curriculum vitae, 126-144

Wallihan, F. F., 83-96